

Claims

1. A plug connector (10) for connecting two ribbon conductors (11, 12), which has at least one spring element (27) that affords the requisite normal contact force for connecting the two ribbon conductors, is hereby characterized in that the spring element (27) contacts the two ribbon conductors (11, 12) and produces the electrical connection between the two ribbon conductors.
2. The plug connector (10) according to claim 1, further characterized in that the spring element (27) is joined solidly with the first ribbon conductor (12).
3. The plug connector (10) according to claim 1 or 2, further characterized in that the plug connector has an uptake for an inserted unit (16), on which the second ribbon conductor (11) is held in place.
4. The plug connector (10) according to claim 3, further characterized in that the uptake has channels (29) that are separated from one another by ribs (28), in each of which a spring element (27) is arranged.
5. The plug connector (10) according to claim 3 or 4, further characterized in that the spring element (27) has a free end, which is bent back in the direction of insertion of the inserted unit.

6. The plug connector (10) according to claim 5, further characterized in that, in the direction of insertion in front of the spring element, the inserted unit (16) has a raised part (31), which forms a stop for the spring element (27).
7. The plug connector (10) according to claim 5 or 6, further characterized in that the free end of the spring element (27) touches the second ribbon conductor (11) held in place on the inserted unit (16).
8. The plug connector (10) according to one of claims 3 to 7, further characterized in that the inserted unit (16) has a ribbed structure (20), in which the spring element (27) engages and contacts the second ribbon conductor (11) held in place on the inserted unit (16).
9. The plug connector (10) according to one of claims 1 to 8, further characterized in that the first ribbon conductor (12) is arranged on a circuit board (13).
10. A plug connector system (50) for connecting two ribbon conductors (51, 52), with
 - a first holder (60), on which the first ribbon conductor (51) is held in place,
 - a second holder (80) on which the second ribbon conductor (52) is held in place, which has at least one spring element (90) that affords the requisite normal contact force for connecting the two ribbon conductors (51, 52),

is hereby characterized in that

the first holder (60) has a comb structure (65), whereby the first ribbon conductor is placed around teeth (64) of the comb structure (65), which [teeth] engage on ribs (83) formed on the second holder (80) and thus connect the two ribbon conductors to each other.

11. The plug connector system (50) according to claim 10, further characterized in that at least one spring element (90) is arranged in at least one recess (88) formed in the second holder.
12. The plug connector system (50) according to claim 11, further characterized in that the second ribbon conductor (52) is arranged between the spring element (90), arranged in the recess (88), and the ribs (83), so that the spring element (90) presses the second ribbon conductor (52) against the ribs (83).
13. The plug connector system (50) according to one of claims 10 to 12, further characterized in that a conductive track of the first ribbon conductor (51) lies around each tooth (64) of the comb structure (65), a shoulder (66) being formed between the teeth (64) for guiding the respective conductive tracks.
14. The plug connector system (50) according to one of claims 10 to 13, further characterized in that the ribbon conductor in the first holder is held in place between a cross piece (67) that runs transverse to the conductive tracks and a hinge (69), which can be swung from a prelocking position into a final locking

position and which, at the same time, holds the end of the ribbon conductor (51) in the final locking position.

15. The plug connector system (50) according to one of claims 10 to 14, further characterized in that a respective spring element (90) is provided between two ribs (83), which presses a respective conductive track of the second ribbon conductor (52) in the direction of the first ribbon conductor (51) laid around the teeth (64).